Experiment # 6:

Film Screen Contact

Objective:

To demonstrate the loss of recorded detail due to improper film screen contact.

Procedure:

We will use a hand phantom ,a 24X18 cassette and 4 small objects (e.g. a nickel)

Film 1:

1- Place the hand phantom in PA position on the cassette

2- Center the X-ray beam to the hand and collimate it to the area of interest.

3- Expose using the following factors: Kv=45 mAs=2.5

4- process the film

Film 2:

1- Open the cassette and place the small 4 objects on the screen 3 inches

in from the corners.

2- Place the film on the objects.

3- Close the cassette.

4- Place the hand phantom in PA position on the cassette

5- Center the X-ray beam to the hand and collimate it to the area of interest.

6- Expose using the following factors: Kv=45 mAs=2.5

7- process the film

Film 1:

1- Good film-screen contact

2- Sharp image

3- High resolution ( good details)

Film 2:

1- poor film-screen contact

2- unsharp image (blurred)

3- bad resolution ( poor details)